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TI Adamite rolls with high wear and surface roughening resistance for hot rolling of steels
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PA Nippon Steel Corp., Japan
SO Jpn. Kokai Tokkyo Koho, 7 pp.
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AB In the adamite roll, the outer material comprises a **Fe** alloy containing **C** 1.0-2.5, **Si** 0.2-2.0, **Mn** 0.2-2.0, **Ni** 0.2-3.0, **Cr** 0.5-4.0, **Mo** 0.2-2.0, B 0.001-0.50, Al 0.001-0.50, Ti 0.001-0.50, Zr 0.001-0.50, **Cu** 0.001-0.50, Mg 0.001-0.50, and Ca 0.001-0.50 weight%, optionally with W 0.2-3.0, V 0.2-3.0, Nb 0.2-3.0, and/or Co 0.2-3.0 weight%. Since the **Fe** alloy has a microstructure containing uniform and fine spherical grains of M3C eutectic carbide, the adamite roll has high wear resistance and surface roughening resistance.